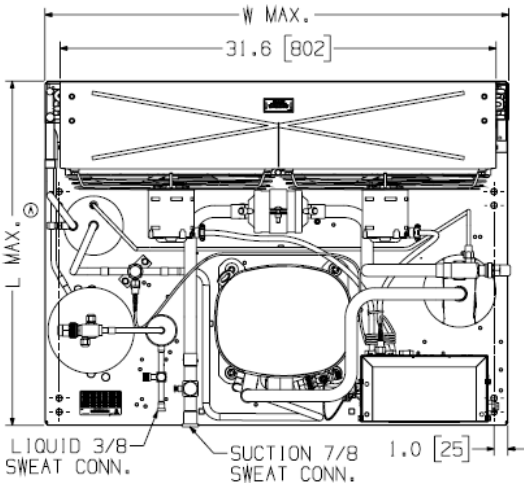
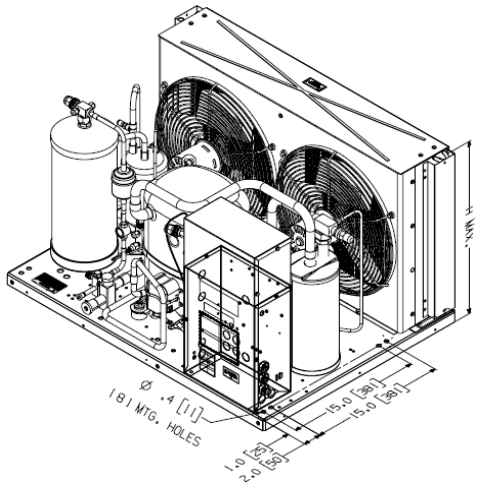
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AVA2515ZXNXF **BoM: 2B3262-1** **R-404A** **3.75 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AVA2515ZXNXF	25.0	33.5	19.5	16.0	7/8” S	3/8” S	18.14 lbs	1600	38.5	230
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-40	34.2	6415	2161	89	5259	2063	99	---	---	---	---	---	---
-35	36.8	8006	2394	90	6868	2324	100	5849	2236	109	4202	2139	118
-30	39.6	9689	2639	91	8529	2594	101	7069	2523	111	5599	2431	119
-25	43.1	11463	2894	93	10242	2872	103	8685	2820	112	7035	2736	121
-20	46.1	13330	3159	95	12007	3158	104	10336	3125	114	8510	3053	122
-15	49.9	15288	3435	97	13824	3454	106	12022	3440	115	10024	3381	124
-10	53.7	17338	3722	99	15694	3758	108	13744	3762	117	11578	3722	126
0	62.8	21715	4328	103	19589	4392	113	17293	4434	121	14803	4439	130
5	68.05	24041	4646	106	21615	4722	115	19120	4783	124	16474	4815	132
10	73.3	26459	4976	109	23693	5061	118	20982	5141	126	18184	5204	134

60 Hz Performance

Return gas temp. 40°F, 5°F sub-cooling

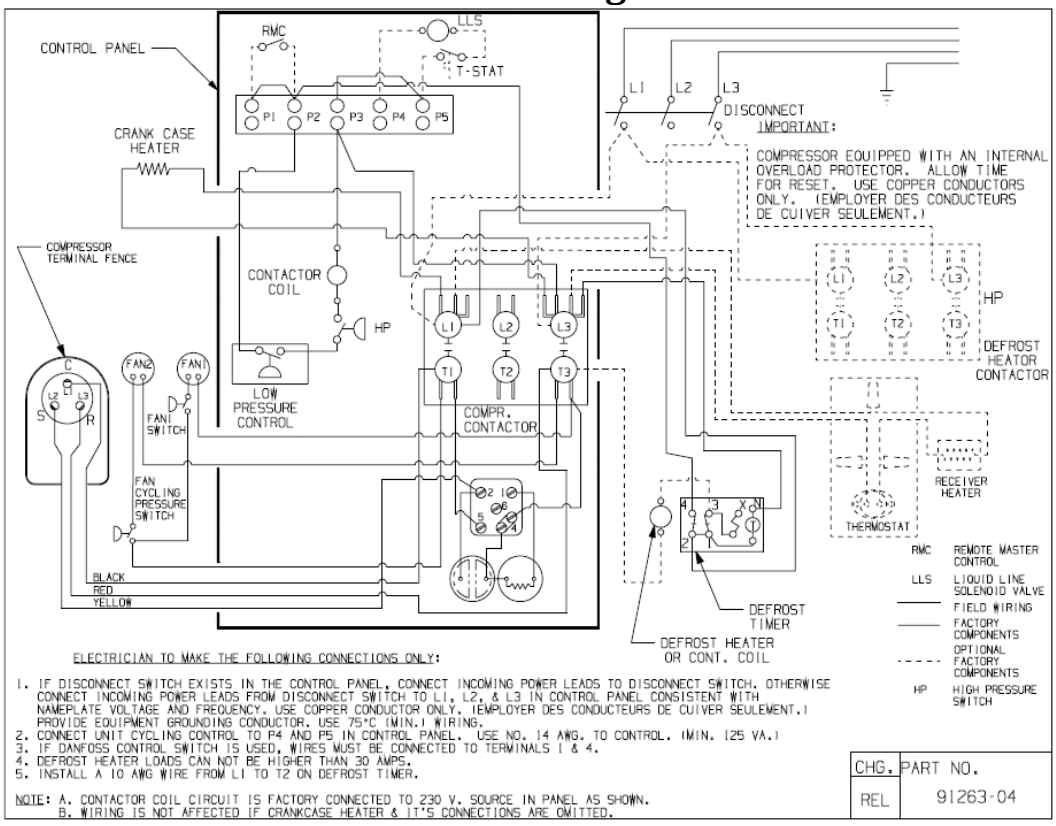
March 16, 2011

Specifications/ Parts:

Model	AVA2515ZXNXF
Unit Bill of Material	2B3262-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-40° to 10°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	27.7
Max. Fuse Size (amps)	45
Compressor Model	AVA2512ZXN
Comp. Bill of Material	AV180ET-001-P2
Compressor RLA/LRA	20.8 / 120.3
Overload	INTERNAL
Relay	820ARR3H46
Run Capacitor	85PR440E65
Run Capacitor Rating	45MFD 440V(M)VDE
Start Capacitor	85PS330D18
Start Capacitor Rating	176-216 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1920-39
Wiring Diagram	91263-04

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50858-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	90699
Defrost Timer *	84110
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
BLACK
RED
YELLOW
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
COMPR. CONTACTOR
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
REL 91263-04